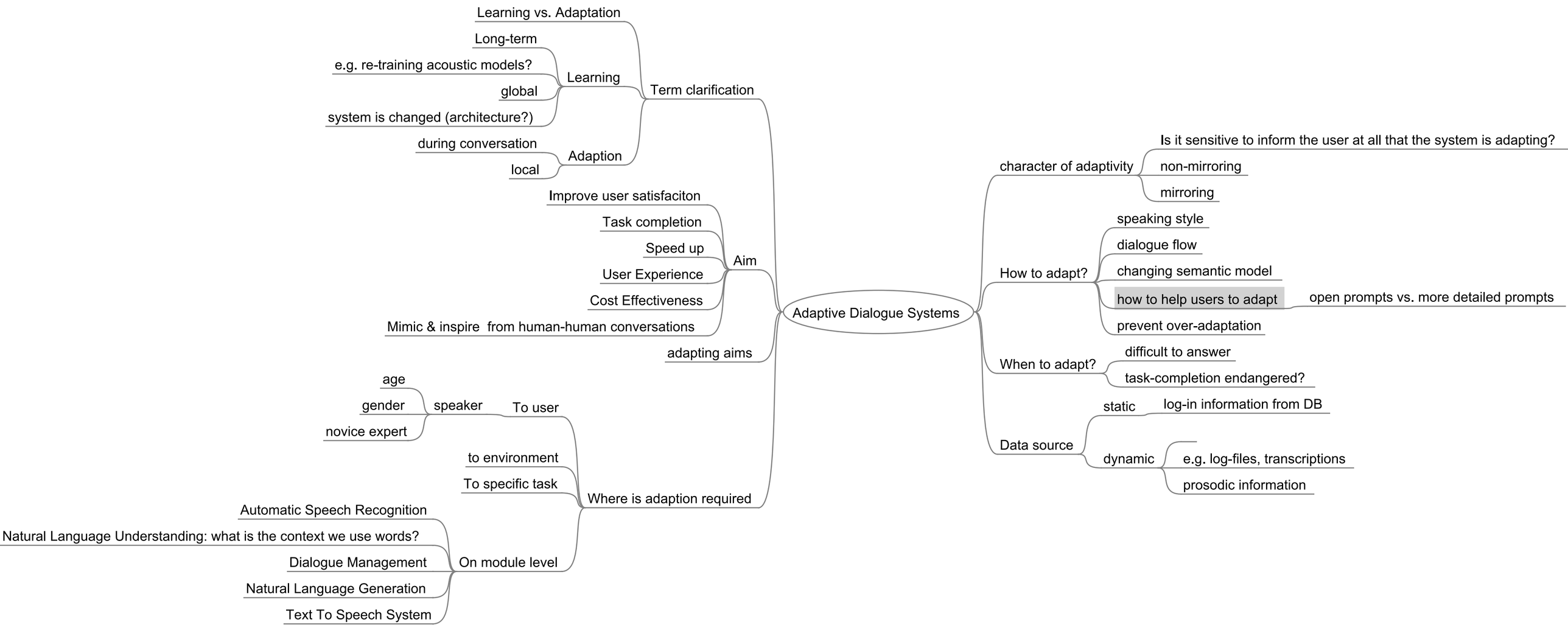

Adaptive Dialogue Systems
Term clarification
Learning
Learning vs. Adaptation
Long-term
e.g. re-training acoustic models?
global
system is changed (architecture?)
Adaption
during conversation
local
Aim
Improve user satisfaciton
Task completion
Speed up
User Experience
Cost Effectiveness
Mimic & inspire from human-human conversations
adapting aims
Where is adaption required
To user
speaker
age
gender
novice expert
to environment
To specific task
On module level
Automatic Speech Recognition
Natural Language Understanding: what is the context we use words?
Dialogue Management
Natural Language Generation
Text To Speech System
character of adaptivity
Is it sensitive to inform the user at all that the system is adapting?
non-mirroring
mirroring
How to adapt?
speaking style
dialogue flow
changing semantic model
how to help users to adapt
open prompts vs. more detailed prompts
prevent over-adaptation
When to adapt?
difficult to answer
task-completion endangered?
Data source
static
log-in information from DB
dynamic
e.g. log-files, transcriptions
prosodic information